Date: Wed, 11 Aug 93 04:30:26 PDT
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V93 #5
To: Ham-Space

Ham-Space Digest Wed, 11 Aug 93 Volume 93 : Issue 5

Today's Topics:

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 11 Aug 1993 01:22:55 GMT
From: news.cerf.net!pagesat!spssig.spss.com!feenix.metronet.com!
marcbg@network.ucsd.edu
Subject: ARRL Keplerian Bull 31
To: ham-space@ucsd.edu

SB KEP @ ARL $ARLK031
ARLK031 Keplerian data

ZCZC SK43
QST de W1AW
Keplerian Bulletin 31 ARLK031

Date: Tue, 10 Aug 1993 14:06:08 +0000
From: dog.ee.lbl.gov!overload.lbl.gov!agate!doc.ic.ac.uk!warwick!qmw-dcs!qmw!
demon!cotswold.demon.co.uk!nigel@network.ucsd.edu
Subject: Kepler Elements via the Internet

To: ham-space@ucsd.edu

Before anyone says I have checked for an FAQ and not found one. Is it possible to obtain kepler elements via the Internet?

Date: 10 Aug 93 18:03:18 GMT
From: headwall.Stanford.EDU!Csli!paulf@RUTGERS.EDU
Subject: Meteori scatter and Troposcatter
To: ham-space@ucsd.edu

tjonz@caliban.Corp.Sun.COM (Todd Jonz) writes:

>It sounds like Dean is looking for a reliable path, and Glenn recommends
>meteor scatter, which surprised me. I had the impression that meteor scatter
>was a very occasional thing, like when the Persieds or Leonids were in town.
>Is this not the case? If I were to work nothing other than meteor scatter,
>how many hours would I be able to work during and "average" week?

Well, now that all depends on a number of factors. If you rely on shower meteors (known in the MBC world as "overdense"), then you're correct, the time between pings is quite long. Most MBC systems, however, rely on underdense meteors, which are the result of collisions with cosmic dust, and which are far more frequent (10^14 per day). The exact equations are in the CCIR Green Books.

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-=Paul Flaherty, N9FZX | "The National Anthem has become The Whine."
->paulf@Stanford.EDU | -- Charles Sykes, _A Nation of Victims_

Date: Tue, 10 Aug 1993 10:40:54 -0400
From: swrinde!cs.utexas.edu!math.ohio-state.edu!magnus.acs.ohio-state.edu!
cis.ohio-state.edu!news.sei.cmu.edu!bb3.andrew.cmu.edu!andrew.cmu.edu!
bt0l+@network.ucsd.edu
Subject: Satelite-Navigation-Systems, Infos wanted.
To: ham-space@ucsd.edu

Dear Melody,

  Your friend probably used the US 'GPS' or Global Positioning Service, or possibly the Russian version called GLONASS.

I'm not an expert on this, but I believe that both systems operate by having satellites constantly transmitting information (very precise time, and a satellite ephemeris or position table), which the receiver uses to establish a user's location. The user only receives information -- nothing is transmitted except by the satellites.

It is legal to use this any time, anywhere, at least in the USA. Other countries may limit the use of radio receivers.

You can estimate your position in two dimensions quite well, under 200 metres. The US version has a dithering feature which the military controls. When that feature is off, you can get a 2D position to perhaps 20 metres. Information on vertical position is also available, but requires more satellites be received, and is generally slightly less precise.

Costs of the GPS receivers are dropping rapidly. Boating supply houses may be a good place to look. In US dollars, prices seem to range from perhaps USD$600 through USD$2,000. The high end is for units which are intended for aircraft, or that have other specialized features.

Sony, Trimble, and others make units for the US market -- I'm sure that there are many other manufacturers elsewhere.

- Bruce Taylor (blt+@cmu.edu)

Date: Wed, 11 Aug 1993 11:17:14
From: news.univie.ac.@!email.tuwien.ac.@!afthit02.tuwien.ac.@!roland@uunet.uu.net
Subject: Satelite-Navigation-Systems, Infos wanted.
To: ham-space@ucsd.edu

In article <ggNvBqO00UzxQ1x2VE@andrew.cmu.edu> blt+@CMU.EDU (Bruce Taylor) writes:

At the moment in the newsgroup "de.sci.misc" there is a diskussion about this topic.

Roland

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[--- Technische Universitaet Wien, Institut fuer Allgemeine Maschinenlehre ---]
[---------- und Foerdertechnik, Abteilung Foerdertechnik (E321/2) ----------]

Date: (null)
From: (null)
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End of Ham-Space Digest V93 #5
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